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Robert Stets, Sandhya Dwarkadas, Nikolaos Hardavellas, Galen Hunt, Leonidas Kontothanassis, Srinivasan Parthasarathy, Michael Scott

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5Full text available:  pdf(2.17 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**2 Architectural primitives for a scalable shared memory multiprocessor**

Joonwon Lee, Umakishore Ramachandran

June 1991 **Proceedings of the third annual ACM symposium on Parallel algorithms and architectures**Full text available:  pdf(1.27 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**3 Ada 83/95 binding to OSF's distributed computing environment (DCE)**

Richard Kram, Ed Gallagher, Jeffrey Den Bleyker, Howard Eng

November 1995 **Proceedings of the conference on TRI-Ada '95: Ada's role in global markets: solutions for a changing complex world**Full text available:  pdf(1.25 MB) Additional Information: [full citation](#), [references](#)**4 Preliminary thoughts on problem-oriented shared memory: a decentralized approach to distributed systems**

David R. Cheriton

October 1985 **ACM SIGOPS Operating Systems Review**, Volume 19 Issue 4Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Much of the work to date on distributed systems has focused on the correct choice of *communication paradigm*, stressing (for example) message primitives, remote procedure call, problem- oriented protocols and so on. A distributed system service is then implemented as a module executing on particular server machine that is accessed using these communication facilities. In contrast, the shared *memory paradigm* has been used on multiprocessor and uniprocessor systems. In the shared memo ...

5 Shared memory computing on SP2: JIAJIA approach

M. Rasit Eskicioglu, T. Anthony Marsland

November 1998 **Proceedings of the 1998 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: [pdf\(99.27 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Distributed shared memory (DSM) is a useful abstraction not only for deploying networks of workstations as a parallel multicomputer but also for increasing the usability of non-uniform memory access multicomputers. It provides an alternative programming model for distributed memory computers. In this paper, we present empirical evaluation of JIAJIA, a software DSM system, on an IBM SP2 cluster. We also discuss the performance of a suite of six widely different applications running under this sof ...

6 Distributed shared memory in a loosely coupled distributed system

B. D. Fleisch

August 1987 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM workshop on Frontiers in computer communications technology**, Volume 17 Issue 5

Full text available: [pdf\(1.32 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This work outlines the development and performance validation of an architecture for distributed shared memory in a loosely coupled distributed computing environment. This distributed shared memory may be used for communication and data exchange between communicants on different computing sites; the mechanism will operate transparently and in a distributed manner. This paper describes the architecture of this mechanism and metrics which will be used to measure its performan ...

7 LOTEC: a simple DSM consistency protocol for nested object transactions

Peter Graham, Yahong Sui

May 1999 **Proceedings of the eighteenth annual ACM symposium on Principles of distributed computing**

Full text available: [pdf\(1.22 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Eventually-serializable data services

Alan Fekete, David Gupta, Victor Luchangco, Nancy Lynch, Alex Shvartsman

May 1996 **Proceedings of the fifteenth annual ACM symposium on Principles of distributed computing**

Full text available: [pdf\(975.50 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 The V distributed system

David Cheriton

March 1988 **Communications of the ACM**, Volume 31 Issue 3

Full text available: [pdf\(2.55 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The V distributed System was developed at Stanford University as part of a research project to explore issues in distributed systems. Aspects of the design suggest important directions for the design of future operating systems and communication systems.

10 An economical solution to the cache coherence problem

James Archibald, Jean Loup Baer

January 1984 **ACM SIGARCH Computer Architecture News , Proceedings of the 11th annual international symposium on Computer architecture**, Volume 12 Issue 3

Full text available: [pdf\(728.73 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we review and qualitatively evaluate schemes to maintain cache coherence in tightly-coupled multiprocessor systems. This leads us to propose a more economical (hardware-wise), expandable and modular variation of the "global directory" approach. Protocols for this solution are described. Performance evaluation studies indicate the limits (number of processors, level of sharing) within which this approach is viable.

11 An efficient caching support for critical sections in large-scale shared-memory multiprocessors

Sang Lyul Min, Jean-Loup Baer, Hyoung-Joo Kim

June 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th international conference on Supercomputing**, Volume 18 Issue 3

Full text available: [pdf\(1.39 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Directory-based and software-assisted schemes are the two main approaches to solving the cache coherence problem in large scale shared-memory multiprocessors. Until now, the emphasis in software-assisted schemes has been on ascertaining consistency within parallel constructs such as DoAll or DoAcross loops. In this paper, we propose a timestamped-based approach which also allows caching within critical sections. This scheme combines the best features of software-assisted and directory-based ...

12 The LHAM log-structured history data access method

Peter Muth, Patrick O'Neil, Achim Pick, Gerhard Weikum

February 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4

Full text available: [pdf\(494.76 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [index terms](#)

Numerous applications such as stock market or medical information systems require that both historical and current data be logically integrated into a temporal database. The underlying access method must support different forms of "time-travel" queries, the migration of old record versions onto inexpensive archive media, and high insertion and update rates. This paper presents an access method for transaction-time temporal data, called the log-structured history data access method (L ...

Keywords: Data warehouses, Index structures, Performance, Storage systems, Temporal databases

13 Overview of an Ada compatible distributed database manager

Arvola Chan, Umeshwar Dayal, Stephen Fox, Nathan Goodman, Daniel R. Ries, Dale Skeen

May 1983 **ACM SIGMOD Record , Proceedings of the 1983 ACM SIGMOD international conference on Management of data**, Volume 13 Issue 4

Full text available: [pdf\(1.16 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Adaplex is an integrated language for programming database applications. It results from the embedding of the database sublanguage DAPLEX in the general purpose programming language Ada. This paper provides an overview of the DDM: a distributed database manager (DDM) that supports the use of Adaplex as an interface language. The important technical innovations we have incorporated in the design of this system include: 1. An advanced data model that captures more application semantics than conventional ...

14 Concurrent online tracking of mobile users

Baruch Awerbuch, David Peleg

August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols**, Volume 21 Issue 4

Full text available:  pdf(1.09 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



15 Leases: an efficient fault-tolerant mechanism for distributed file cache consistency

C. Gray, D. Cheriton

November 1989 **ACM SIGOPS Operating Systems Review , Proceedings of the twelfth ACM symposium on Operating systems principles**, Volume 23 Issue 5

Full text available:  pdf(1.13 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Caching introduces the overhead and complexity of ensuring consistency, reducing some of its performance benefits. In a distributed system, caching must deal with the additional complications of communication and host failures. Leases are proposed as a time-based mechanism that provides efficient consistent access to cached data in distributed systems. Non-Byzantine failures affect performance, not correctness, with their effect minimized by short leases. An anal ...



16 HD-DBMS: an approach to integrating heterogeneous distributed database systems in the office environment

T. S. Narayanan, P. Goyal, B. C. Desai

May 1985 **Proceedings of the 1985 ACM SIGSMALL symposium on Small systems**

Full text available:  pdf(757.83 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

Advances in communication technology and inexpensive hardware are spreading the use of distributed information systems and in particular distributed databases. There has also been a lot of interest and substantial investment in the use of personal computers. This has led to the development of microcomputer based database management systems (DBMS). These DBMS's differ in their underlying data models and their data definition, manipulation and security capabilities. As part of the development ...



17 The Kyushu University reconfigurable parallel processor: design of memory and intercommunicaiton architectures

Kazuaki Murakami, Shin-ichiro Mori, Akira Fukuda, Toshinori Sueyoshi, Shinji Tomita

June 1986 **Proceedings of the 3rd international conference on Supercomputing**

Full text available:  pdf(1.39 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The reconfigurable parallel processor system under development at Kyushu University is an MIMD-type multiprocessor which consists of N processing-elements (currently N is 128) fully connected by S N × N crossbar networks (currently S is 1). Each PE (Processing Element) employs a Fujitsu SPARC MB86900/10 chip-set, a Weitek WTL1164/65 chip-set, an MMU (Memory Management Unit) with 64K b ...



18 A low-overhead coherence solution for multiprocessors with private cache memories

Mark S. Papamarcos, Janak H. Patel

January 1984 **ACM SIGARCH Computer Architecture News , Proceedings of the 11th annual international symposium on Computer architecture**, Volume 12 Issue 3

Full text available:  pdf(590.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper presents a cache coherence solution for multiprocessors organized around a single time-shared bus. The solution aims at reducing bus traffic and hence bus wait time. This in turn increases the overall processor utilization. Unlike most traditional high-

performance coherence solutions, this solution does not use any global tables. Furthermore, this coherence scheme is modular and easily extensible, requiring no modification of cache modules to add more processors to a system. The ...

19 Invited talk: modular architectures for distributed and databases systems

A. Z. Spector

March 1989 Proceedings of the eighth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systemsFull text available:  pdf(1.02 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes the importance of modularity in systems and lists a number of reasons why systems will become increasingly modular. It describes two strawmen architecture models for systems and distributed databases in order to illustrate the hierarchical decomposition of complex systems. The paper also relates the systems model to the layering achieved in a few systems familiar to the author.

20 Using idle workstations in a shared computing environment

D. Nichols

November 1987 ACM SIGOPS Operating Systems Review , Proceedings of the eleventh ACM Symposium on Operating systems principles, Volume 21 Issue 5Full text available:  pdf(731.73 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Butler system is a set of programs running on Andrew workstations at CMU that give users access to idle workstations. Current Andrew users use the system over 300 times per day. This paper describes the implementation of the Butler system and tells of our experience in using it. In addition, it describes an application of the system known as gypsy servers, which allow network server programs to be run on idle workstations instead of using dedicated server machines.

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Relevance scale **1 Improving end-to-end performance of the Web using server volumes and proxy filters**

Edith Cohen, Balachander Krishnamurthy, Jennifer Rexford

October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 28 Issue 4Full text available:  pdf(1.79 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The rapid growth of the World Wide Web has caused serious performance degradation on the Internet. This paper offers an end-to-end approach to improving Web performance by collectively examining the Web components --- clients, proxies, servers, and the network. Our goal is to reduce user-perceived latency and the number of TCP connections, improve cache coherency and cache replacement, and enable prefetching of resources that are likely to be accessed in the near future. In our scheme, server re ...

Keywords: Web, caching, coherency, filters, piggybacking, prefetching, volumes

2 Summary cache: a scalable wide-area web cache sharing protocol

Li Fan, Pei Cao, Jussara Almeida, Andrei Z. Broder

June 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 3Full text available:  pdf(220.29 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: ICP, Web cache, Web proxy, bloom filter, cache sharing

3 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**Full text available:  pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide

the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

4 Information gathering in the World-Wide Web: the W3QL query language and the W3QS system

David Konopnicki, Oded Shmueli

December 1998 **ACM Transactions on Database Systems (TODS)**, Volume 23 Issue 4

Full text available:  pdf(1.36 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web (WWW) is a fast growing global information resource. It contains an enormous amount of information and provides access to a variety of services. Since there is no central control and very few standards of information organization or service offering, searching for information and services is a widely recognized problem. To some degree this problem is solved by "search services," also known as "indexers," such as Lycos, AltaVista, Yahoo, and others. ...

Keywords: CGI, FORMS, HTML, HTTP, PERL, World-Wide Web, query language, query system

5 Experiences in developing collaborative applications using the World Wide Web "shell"

Andreas Grgensohn, Alison Lee, Kevin Schueter

March 1996 **Proceedings of the the seventh ACM conference on Hypertext**

Full text available:  pdf(2.36 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

Keywords: HTTP server and clients, World Wide Web, awareness and familiarization, collaborative application, community of users, design intent, forms and scripts, portholes, rapid prototyping, work groups

6 Cluster-based scalable network services

Armando Fox, Steven D. Gribble, Yatin Chawathe, Eric A. Brewer, Paul Gauthier

October 1997 **ACM SIGOPS Operating Systems Review , Proceedings of the sixteenth ACM symposium on Operating systems principles**, Volume 31 Issue 5

Full text available:  pdf(2.42 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

7 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment

Barron C. Housel, George Samaras, David B. Lindquist

December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Full text available:  pdf(338.35 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile workers. Yet, the limited bandwidth, high latency, high cost, ...

8 WebExpress: a system for optimizing Web browsing in a wireless environment

Barron C. Housel, David B. Lindquist

November 1996 **Proceedings of the 2nd annual international conference on Mobile computing and networking**

Full text available:  [pdf\(995.95 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

9 Patching onto the Web: Common LISP hypermedia for the intranet

Byron Davies, Victoria Bryan Davies

May 1997 **Communications of the ACM**, Volume 40 Issue 5

Full text available:  [pdf\(498.30 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#), [review](#)

10 An active service framework and its application to real-time multimedia transcoding

Elan Amir, Steven McCanne, Randy Katz

October 1998 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM '98 conference on Applications, technologies, architectures, and protocols for computer communication**, Volume 28 Issue 4

Full text available:  [pdf\(1.80 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

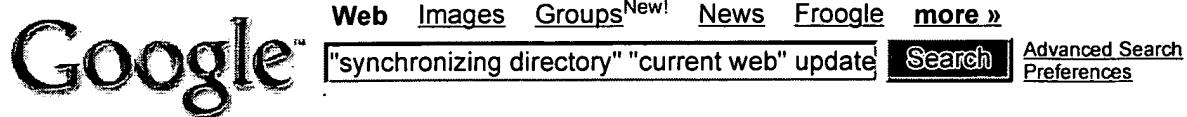
Several recent proposals for an "active networks" architecture advocate the placement of user-defined computation within the network as a key mechanism to enable a wide range of new applications and protocols, including reliable multicast transports, mechanisms to foil denial of service attacks, intra-network real-time signal transcoding, and so forth. This laudable goal, however, creates a number of very difficult research problems, and although a number of pioneering research efforts in active ...

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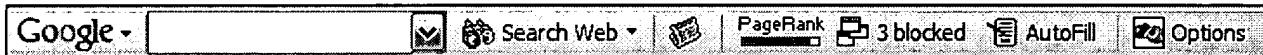
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